

ABSTRACT OF THE DISCLOSURE

There is provided a gas sensor for measuring the concentration of a specific gas component in a gas under measurement, including a gas diffusion rate limiting portion, a measurement chamber communicating with an atmosphere of the gas under measurement through the gas diffusion rate limiting portion, a sensor element having an ion-conductive layer with first and second surfaces, a first electrode disposed in contact with the first surface of the ion-conductive layer within the measurement chamber and a second electrode disposed in contact with the second surface of the ion-conductive layer and communicating exclusively with the atmosphere of the gas under measurement and a cylindrical support member installing therein the sensor element with the first and second surfaces of the ion-conductive layer directed toward front and base end sides of the support member, respectively.